

To: David Gratson [dgratson@neptuneinc.org]
Cc: []
Bcc: []
From: CN=Steve Vandegrift/OU=ADA/O=USEPA/C=US
Sent: Wed 7/18/2012 8:04:18 PM
Subject: Re: Pavillion ADQ Report Version 3
[9ME832HF, 1.2H, Beak, Pavillion Dig. logs & graphs.pdf](#)
[RSKSOP179v3.pdf](#)
<http://www.neptuneandco.com>

Dave-

We've been asked if the Shaw MW digestion meets their SOP requirements, esp the temp plot. I would like to add a review of this aspect to the report.

Attached are temp plots. The second plot is for the Riverton truck water...it's not reported so no need to evaluate.

The first plot takes around 15 min to reach temperature. (SOP states ramp for 10 min to 170). After it reaches 170, SOP states temp must be 170 degrees +/- 15%, it's well within that. EPA Method 3015A requires +/- 5 degrees, and there are a few apparent excursions but overall it is within +/- 5 degrees of 170. SOP states to hold for 30 min, and here the hold time is 25 min due to the ramp time taking longer than 10 min. The only requirement in the SOP regarding temperature is that the temperature be within 15% of 170 degrees after ramp up. The ramp rate should also be evaluated as it affects the hold time.

Digestion % difference (wts before and after) are all well within the requirement of 2% (their way of expressing it is actually agreement, not difference).

They have a blank, dup, and 2 spikes (one for ICP-OES, other for ICP-MS).

A suggested recommended CA could be: The ramp rate should be evaluated with each run as it affects the hold time. The Shaw laboratory should be instructed to make appropriate adjustments to their microwave to ensure that it can meet the ramp rate of 10 min to reach 170 degrees. It is also recommended that Shaw consider changing the set point requirement from +/- 15% to +/- 5 degrees.

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Date: 07/18/2012 01:38 PM
Subject: Pavillion ADQ Report Version 3

Steve,

attached is version 3 of this ADQ Report. This version is identical to the version 2 sent to you, with the exception that the analyses performed at Las Vegas are now include. Issues with ethoxylates, alkyl phenols, and acrylamide are now summarized in Observation 13.

I will now go through your comments on Version 2.

Thank you

Dave

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David Gratson, CEAC

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"Nature holds the key to our aesthetic, intellectual, cognitive and even spiritual satisfaction." E. O. Wilson.

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